

CLAIMS

1. An optical disc comprising:
 - an antenna formed along a circumferential direction;
 - 5 and
 - an IC for transmitting/receiving radio waves via the antenna.
2. An optical disc according to claim 1, further comprising
10 an information layer to/from which information can be recorded/reproduced.
3. An optical disc according to claim 2, wherein the antenna and the IC is provided in an inner peripheral portion of
15 the optical disc, and the information layer is provided in an outer peripheral portion of the optical disc.
4. An optical disc according to claim 1, wherein the IC includes:
 - 20 a receiving section for receiving the radio waves;
 - an ID information storage section for storing the ID information for identifying the optical disc;
 - a signal generation section for generating a signal including the ID information in response to a signal output
25 from the receiving section; and
 - a transmitting section for transmitting the signal.
5. A remote control apparatus for performing wireless
30 communication with the optical disc according to claim 4, comprising:
 - a transmitting section for transmitting radio waves to the optical disc;
 - a receiving section for receiving a response signal

from the optical disc; and

an ID reproduction section for reproducing ID information in response to an output from the receiving section.

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6. A remote control apparatus according to claim 5, further comprising a transmitting section for transmitting the ID information to a recording/reproduction apparatus which performs at least one of a recording operation of recording
10 information on the optical disc and a reproduction operation of reproducing information recorded on the optical disc.

7. A substrate of having a disc shape, provided with an embedding hole for embedding a wiring substrate having an
15 IC attached thereto.

8. An optical disc comprising a first substrate having a disc shape, which has an embedding hole and a wiring substrate having an IC attached thereto, wherein the wiring substrate
20 is embedded into the embedding hole of the first substrate.

9. An optical disc according to claim 8, further comprising: a second substrate having a disc shape, which opposes the first substrate, and an adhesive layer for bonding the first
25 substrate and the second substrate.

10. An optical disc according to claim 8, wherein the first substrate is provided with an angle identifying mark which indicates a predetermined angle.
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11. An optical disc according to claim 8, wherein the IC and the wiring board are included in an IC module, the IC module is embedded in the embedding hole of the first substrate, and a level of a surface of the first substrate and a level
35 of a surface of the IC module embedded into the embedding hole are substantially the same.

12. An optical disc according to claim 8, wherein the IC and the wiring board are included in an IC module, a part of the IC module protrudes from a surface of the first substrate, and a total sum of a volume of a portion protruding with respect to the surface of the first substrate and a total sum of a volume of a gap, which is a portion recessed with respect to the substrate of the first substrate.
13. An optical disc according to claim 8, further comprising an antenna connected to the IC, the IC transmits/receives radio waves via the antenna.
14. An optical disc according to claim 13, wherein the IC, the wiring substrate, and the antenna are included in the IC module, the antenna is formed on a surface of the wiring substrate, which is a surface opposite to the first substrate, and the IC is formed on a surface of the wiring substrate, which is a surface on the first substrate side.
15. An optical disc according to claim 13, wherein the antenna includes antenna wiring of a spiral shape having a diameter decreasing as it extends from the outer peripheral portion to an inner peripheral portion of the optical disc, and the antenna wiring is provided with a plurality of bent portions where the diameter of the antenna wiring changes.
16. An optical disc according to claim 13, further comprising an information layer to/from which information can be recorded/reproduced, wherein the information layer includes a metal reflection film, and the metal reflection film and the antenna are formed such that a thickness and a composition of the metal reflection film are substantially the same as the metal reflection film and the antenna.
17. A method for fabricating an optical disc comprising forming a first substrate having a disc shape, which has an embedding hole, and embedding a wiring substrate having the IC attached thereto into the embedding hole.

18. A method for fabricating an optical disc according to claim 17, further comprising forming a second substrate having a disc shape, which opposes the first substrate, and bonding the first substrate and the second substrate via an adhesive layer.
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